YOR920000824US1 (00280686AA)

PATENT APPLICATION

7,D 01/23/03



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of Tracy J. Kimbrel et al.

Filed: December 4, 2001

Serial No.: 10/000,320 Group Art Unit: 2152

For: DYNAMIC RESOURCE ALLOCATION USING KNOWN FUTURE

BENEFITS

Commissioner of Patents and Trademarks Washington, D.C. 20231

RECEIVED
DEC 2 0 2002

REQUEST TO CORRECT INVENTIVE ENTITY Technology Center 2100 UNDER 37 C.F.R. §1.48(a)

Examiner: Not Known

Sir:

Please correct the inventive entity as originally set forth in the declaration under 37 C.F.R. §1.63 of the above-identified application by adding Maria Minkoff to the other joint inventors. The other joint inventors are:

Tracy J. Kimbrel, Robert Krauthgamer, Baruch M. Schieber, Maxim I. Sviridenko, and Jayram S. Thathachar

as correctly stated in the declaration as originally filed. The omission of Maria Minkoff occurred through error and without deceptive intent, as noted in the attached statement of Maria Minkoff and, in fact, occurred during concurrent execution of two

01/23/2003 TDADE1 01 FC:1460

\*\*Mapph 100510 1000370 which were concurrently filed in which the 130.00 CH applications. A Request for Correction of Inventive Entity to delete Maria Minkoff as a joint inventor in the other application is being concurrently filed

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A declaration of the above-noted inventors and a Consent of Assignee are also attached.

Accordingly, favorable consideration of this Request for Correction of Inventive Entity is respectfully requested. Please charge the processing fee under 37 C.F.R. §1.17(i) in the amount of \$130.00, and any deficiencies in fees and credit any overpayment of fees to Deposit Account No. 50-0510 of International Business Machines Corporation (Yorktaown).

Respectfully submitted,

Marshall M. Curtis Reg. No. 33,138

20742

DU/45
PATENT TRADEMARK OFFICE

YOR920000824US1 (00280686AA)

PATENT APPLICATION

1

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Watth re Patent Application of

Tracy J. Kimbrel et al.

Serial No.: 10/000,320

Group Art Unit: 2152

Filed: December 4, 2001

Examiner: Not Known

For: DYNAMIC RESOURCE ALLOCATION USING KNOWN FUTURE

BENEFITS

Commissioner of Patents and Trademarks Washington, D.C. 20231

RECEIVED

DEC 2 0 2002

STATEMENT OF MARIA MINKOFF

**Technology** Center 2100

Sir:

I, Maria Minkoff, of 289 Highland Avenue,
Somerville, Massachusetts 02144, was erroneously
omitted as a joint inventor in the declaration under 37
C.F.R. §1.63 of the above-identified application, as
originally filed. The error in my omission as a joint
inventor occurred through error and without deceptive
intention on my part in the course of concurrent
execution of two applications having the remaining
joint inventors common to both applications.

Signed Maria Minkoff 12/05/02

Application for United States Patent

### eclaration and Power of Attorney

inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

DYNAMIC RESOURCE ALLOCATION USING KNOWN FUTURE BENEFITS

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one)				ı	חרת נ	0 0000
	፟	was filed on12/04/200	<u>01</u> as		DEG	2 0 2002
		Application Serial No. 10 and was amended on			Technology	y Center 2100
includin		state that I have reviewed ms, as amended by any am			1 specification,	
accordai		vledge the dury to disclose Fitle 37, Code of Federal F		erial to the examination o	of this application	n in
	on(s) for	claim foreign priority ben patent or inventor's certifi ntor's certificate having a f	icate listed below and have	also identified below an	y foreign applica	
Prior Fo	reign Ap <sub>l</sub>	olication(s)			Priority Cla	aimed
None						
(Numbe	r)	(Countr	(Day/1	Month/Year Filed)	yes no	•
United S acknowl	low and, tates app edge the courred b	claim the benefit under Ti insofar as the subject matt lication in the manner pro- duty to disclose material in etween the filing date of th	ter of each of the claims of wided by the first paragrap nformation as defined in T	this application is not di h of Title 35, United Sta- itle 37, Code of Federal	sclosed in the pr tes Code, § 112, Regulations, §1.	ior I 56(a)
(Applica	tion Seri	al No.)	(Filing Date)	(Status: patented, pend	ding, abandoned	<u>,</u>
Percello,	vin, Reg. , Reg. No	f Attomey: As a named in No. 33,010, Louis P. Herz . 33,206, Robert M. Trepp Paul J. Otterstedt, Reg. No	zberg, Reg. No. 41,500, St p, Reg. No. 25,933, Gail F	ephen C. Kaufinan, Reg. I. Zarick, Reg. No. 43,30	No. 29,551, Lo. 3, Daniel P. Mor	uis J. mis,

PC at (703) 778-9400. Please associate this application with the following customer number:

No. 37,321, Douglas W. Cameron, Reg. No. 31,596, Kevin M. Jordan, Reg. No. 40,277, Michael E. Whitham, Reg. No. 32,635, Marshall M. Curtis, Reg. No. 33,138, Clyde R Christofferson, Reg. No. 34,138, C. Lamont Whitham, Reg. No. 22,424, Ruth E. Tyler-Cross, Reg. No. 45,922 and Olga V. Merkoulova, Reg. No. 48,757 as attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. All correspondence should be directed to Whitham, Curtis & Christofferson, PC, 11491 Sunset Hills Road, Suite 340, Reston, Virginia 20190. Telephone calls should be directed to Whitham, Curtis & Christofferson,

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(1)	Inventor:	Tracy J. Kimbrel		
	Signature:		Date	
	Residence:	144 Rita Drive, Cortlandt Manor, New York 10567		
	Citizenship:	US	•	
	Post Office	Address: Same As Residence		
(2)	Inventor:	Robert Krauthgamer		
	Signature:		Date	
	Residence:	29 Szold Street, Ramat Hasharon, 47225, Israel		
	Citizenship:	Israel		
	Post Office	Address: Same As Residence		
(3)	Inventor:	Maria Minkoff		
	Signature:	Maria Minkoff	<b>★</b> Date /	2/05/02
	Residence:	289 Highland Ave., Apt. 206, Somerville, MA 02144		
	Citizenship:	US		
	Post Office	Address: Same As Residence		
(4)	Inventor:	Baruch M. Schieber		
	Signature:		Date	
	Residence:	25 Wilmont Ave., White Plains, New York 10605	:	
	Citizenship:	US	:	
	Post Office	Address: Same As Residence	•	
(5)	Inventor:	Maxim I. Sviridenko	•	
	Signature:		Date_	
	Residence:	3579 Sagamore Ave., Mohegan Lake, New York 10549		
	Citizenship:	Russia	•	
	Post Office A	Address: Same As Residence		!

(6)	Inventor:	Jayram S. Thathachar		
	Signature:	·	Date	N.
	Residence:	272 Palm Valley Blvd., #205, San Jose, California 95123		
	Citizenship:	India		

#### Title 37, Code of Federal Regulations, §1.56(a):

Post Office Address: Same As Residence

- (a) A duty of candor and good faith toward the Patent and Trademark Office rests on the inventor, on each attorney or agent who prepares or prosecutes the application and on every other individual who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application. All such individuals have a duty to disclose to the Office information they are aware of which is material to the examination of the application. Such information is material where there is substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent. The duty is commensurate with the degree of involvement in the preparation or prosecution of the application.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability; or (2) it refutes, or is inconsistent with, a position the applicant takes in: (i) opposing an argument of unpatentability relied on by the Office, or (ii) asserting an argument of patentability.

As a below named intentor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

		DYNAMIC RE	SOURCE ALLOCAT	ION USING I	KNOWN FUTUR	EBENEF	ITS EIV.	
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	×	Application S	12/04/2001 as Serial No. 10/000,320 oded on(if	`applicable)	Te	echnology	•	T
includir			ve reviewed and undersed by any amendment re			ntified spe	cificatio	) n,
accorda			y to disclose informatio of Federal Regulations		erial to the examin	ation of thi	s applic	ation in
for pate	tion(s) int or i	) for patent or inve inventor's certifica	priority benefits under intor's certificate listed te having a filing date b	below and have	also identified be	low any for	reign ap ity is cla	imed:
	oreign	Application(s)					Priority	Claimed
None (Number	r)		(Country)	(Day/	Month/Year Filed)		yes	no
United acknow	elow a States ledge eccurr	and, insofar as the application in the the duty to disclosed between the fili	efit under Title 35, Uni subject matter of each o manner provided by th se material information ng date of the prior app	of the claims of the first paragrap as defined in T	f this application is the of Title 35, Unit litle 37, Code of Fo	not disclosted States Cederal Regi	sed in the Code, § 1 ulations,	e prior 112, I §1.56(a)
(Applic	ation	Serial No.)	(Filing D	ate)	(Status: patente	d, pending,	abando	ned)
	Pow	er of Attorney: As	s a named inventor. The	erehy appoint N	Janny W. Schecte	r Reg No	31 722	Richard

Power of Attorney: As a named inventor, I hereby appoint Manny W. Schecter, Reg. No. 31,722, Richard M. Ludwin, Reg. No. 33,010, Louis P. Herzberg, Reg. No. 41,500, Stephen C. Kaufman, Reg. No. 29,551, Louis J. Percello, Reg. No. 33,206, Robert M. Trepp, Reg. No. 25,933, Gail H. Zarick, Reg. No. 43,303, Daniel P. Morris, Reg. No. 32,053, Paul J. Otterstedt, Reg. No. 37,411, Derek S. Jennings, Reg. No. 41,473, Timothy M. Farrell, Reg. No. 37,321, Douglas W. Cameron, Reg. No. 31,596, Kevin M. Jordan, Reg. No. 40,277, Michael E. Whitham, Reg. No. 32,635, Marshall M. Curtis, Reg. No. 33,138, Clyde R Christofferson, Reg. No. 34,138, C. Lamont Whitham, Reg. No. 22,424, Ruth E. Tyler-Cross, Reg. No. 45,922 and Olga V. Merkoulova, Reg. No. 48,757 as attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. All correspondence should be directed to Whitham, Curtis & Christofferson, PC, 11491 Sunset Hills Road, Suite 340, Reston, Virginia 20190. Telephone calls should be directed to Whitham, Curtis & Christofferson, PC at (703) 778-9400. Please associate this application with the following customer number:

30743

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(1)	Inventor: Tracy J. Kimbrel	
	Signature:	Date
	Residence: 144 Rita Drive, Cortlandt Manor, New York 10567	
	Citizenship: US	
	Post Office Address: Same As Residence	
<b>40</b> \		·
(2)	Inventor: Robert Krauthgamer	
	Signature:	Date 12-5-02
	Residence: 29 Szold Street, Ramat Hasharon, 47225, Israel	Ì
	Citizenship: Israel	
	Post Office Address: Same As Residence	
(3)	Inventor: Maria Minkoff	
	Signature:	Date
	Residence: 289 Highland Ave., Apt. 206, Somerville, MA 02144	
	Citizenship: US	
	Post Office Address: Same As Residence	
(4)	Inventor: Baruch M. Schieber	
	Signature:	Date
	Residence: 25 Wilmont Ave., White Plains, New York 10605	
	Citizenship: US	:
	Post Office Address: Same As Residence	
•		
(5)	Inventor: Maxim I. Sviridenko	ļ
	Signature:	Date_
	Residence: 3579 Sagamore Ave., Mohegan Lake, New York 10549	
	Citizenship: Russia	
	Post Office Address: Same As Residence	

ก	Invent	<b>5</b> 7-

Jayram S. Thathachar

Signature:

Date

Residence: 272 Palm Valley Blvd., #205, San Jose, California 95123

Citizenship:

India

Post Office Address: Same As Residence

Title 37, Code of Federal Regulations, §1.56(a):

- (a) A duty of candor and good faith toward the Patent and Trademark Office rests on the inventor, on each attorney or agent who prepares or prosecutes the application and on every other individual who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application. All such individuals have a duty to disclose to the Office information they are aware of which is material to the examination of the application. Such information is material where there is substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent. The duty is commensurate with the degree of involvement in the preparation or prosecution of the application.
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P.004/013 DOCKET: YOR920000824US1

Application for United States Patent

### eclaration and Power of Attorney

entor, I hereby declare that:

post office address and citizenship are as stated below next to my name;

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DYNAMIC RESOURCE ALLOCATION USING KNOWN FUTURE BENEFITS

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			12/04/2001as al No. <u>10/000,320</u> d on(if applic	cable)	Technology Center 2100
includir			reviewed and understand to by any amendment referred	he contents of the above identi id to above.	fied specification,
accorda	I ackno	wledge the dury to Title 37, Code of	disclose information which Federal Regulations, § 1.5	ch is material to the examination of (a).*	on of this application in
	tion(s) for	r patent or invento	or's certificate listed below	35, United States Code, §119 of and have also identified below that of the application on which	vany foreign application
	oreign Ap	plication(s)			Priority Claimed
None (Number	er)	<del></del>	(Country)	(Day/Month/Year Filed)	yes no
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Percello Reg. No	win, Reg. 0, Reg. N 0. 32,053	. No. 33,010, Lou o. 33,206, Robert , Paul J. Ottersted	is P. Herzberg, Reg. No. 4 M. Trepp, Reg. No. 25,93 t, Reg. No. 37,411, Derek	appoint Manny W. Schecter, R 1,500, Stephen C. Kaufinan, R 3, Gail H. Zarick, Reg. No. 43 S. Jennings, Reg. No. 41,473, M. Jordan, Reg. No. 40,277, M.	leg. No. 29,551, Louis J. ,303, Daniel P. Morris, Timothy M. Farrell, Reg.

PC at (703) 778-9400. Please associate this application with the following customer number:

No. 32,635, Marshall M. Curtis, Reg. No. 33,138, Clyde R Christofferson, Reg. No. 34,138, C. Lamont Whitham, Reg. No. 22,424, Ruth E. Tyler-Cross, Rcg. No. 45,922 and Olga V. Merkoulova, Reg. No. 48,757 as attorneys and/or agents to prosccute this application and transact all business in the Patent and Trademark Office connected therewith. All correspondence should be directed to Whitham, Curtis & Christofferson, PC, 11491 Sunset Hills Road, Suite 340, Reston, Virginia 20190. Telephone calls should be directed to Whitham, Curtis & Christofferson,

PATENT TRADEMARK OFFICE

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(1)	Inventor:	Tracy J. Kimbrel		
	Signature:		Date	
	Residence:	144 Rita Drive, Cortlandt Manor, New York 10567		
	Citizenship	: US		
	Post Office	Address: Same As Residence	·	
(2)	Inventor:	Robert Krauthgamer		
(*)		Notes Maniganier		
	Signature:		Date	
	Residence:	29 Szold Street, Ramat Hasharon, 47225, Israel		
	Citizenship	: Israel		
	Post Office	Address: Same As Residence		
	•	·	- 1	
(3)	Inventor:	Maria Minkoff		
	Signature:		Date	*
	Residence:	289 Highland Ave., Apt. 206, Somerville, MA 02144		
	Citizenship	: US		
	Post Office	Address: Same As Residence		
<i>(4</i> )	•			
(4)	Inventor:	Baruch M. Schieber		
	Signature:	<del></del>	Date	
	Residence:	25 Wilmont Ave., White Plains, New York 10605		
	Citizenship	: US	:	
	Post Office	Address: Same As Residence		
			. 1	
(5)	Inventor:	Maxim I. Sviridenko		
	Signature:		Date_	
	Residence:	3579 Sagamore Ave., Mohegan Lake, New York 10549		
	Citizenship	Russia		
	Post Office	Address: Same As Residence		

P.006/013 1 つなみていいいかりてもいって

(6)Inventor: Jayram S. Thathachar

Signature:

Date Dec 05, 2002

Residence: 272 Palm Valley Blvd., #205, San Jose, California 95123

Citizenship:

India

Post Office Address: Same As Residence

Title 37, Code of Federal Regulations, §1.56(a):

- (a) A duty of candor and good faith toward the Patent and Trademark Office rests on the inventor, on each attorney or agent who prepares or prosecutes the application and on every other individual who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application. All such individuals have a duty to disclose to the Office information they are aware of which is material to the examination of the application. Such information is material where there is substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent. The duty is commensurate with the degree of involvement in the preparation or prosecution of the application.
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Application for United States Patent

geclaration and Power of Attorney

a below named intentor, I hereby declare that:

My residence to ffice address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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(Applic	ation Seri	al No.)	(Filing Date)	(Status: patented, p	ending, abando:	ed)
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None		_				_
Prior Fo	reign Ap	plication(s)			Priority	Claimed
	ion(s) for	patent or inventor's cer	rtificate listed below	35, United States Code, §119 of and have also identified below that of the application on which	any foreign app	
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includin		state that I have review ms, as amended by any		he contents of the above identi to above.	fied specification	n, 
•		and was amended on _	,	caole)	:	
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Power of Attomey: As a named inventor, I hereby appoint Manny W. Schecter, Reg. No. 31,722, Richard M. Ludwin, Reg. No. 33,010, Louis P. Herzberg, Reg. No. 41,500, Stephen C. Kaufinan, Reg. No. 29,551, Louis J. Percello, Reg. No. 33,206, Robert M. Trepp, Reg. No. 25,933, Gail H. Zarick, Reg. No. 43,303, Daniel P. Morris, Reg. No. 32,053, Paul J. Otterstedt, Reg. No. 37,411, Derek S. Jennings, Reg. No. 41,473, Timothy M. Farrell, Reg. No. 37,321, Douglas W. Cameron, Reg. No. 31,596, Kevin M. Jordan, Reg. No. 40,277, Michael E. Whitham, Reg. No. 32,635, Marshall M. Curtis, Reg. No. 33,138, Clyde R Christofferson, Reg. No. 34,138, C. Lamont Whitham, Reg. No. 22,424, Ruth E. Tyler-Cross, Reg. No. 45,922 and Olga V. Merkoulova, Reg. No. 48,757 as attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office conhected therewith. All correspondence should be directed to Whitham, Curtis & Christofferson, PC, 11491 Sunset Hills Road, Suite 340, Reston, Virginia 20190. Telephone calls should be directed to Whitham, Curtis & Christofferson, PC at (703) 778-9400. Please associate this application with the following customer number:

30743

ATENT TRADENAKK OFFICE

4,21

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		· 1
(1)	Inventor: Tracy J. Kimbrel	
	Signature:	Date 12-04-0
	Residence: 144 Rita Drive, Cortlandt Manor, New York 10567	
	Citizenship: US	
	Post Office Address: Same As Residence	
(2)	Inventor: Robert Krauthgamer	
	Signature:	Date
	Residence: 29 Szold Street, Ramat Hasharon, 47225, Israel	
	Citizenship: Israel	
	Post Office Address: Same As Residence	
(3)	Inventor: Maria Minkoff	
	Signature:	Date
	Residence: 289 Highland Ave., Apt. 206, Somerville, MA 02144	
	Citizenship: US	
	Post Office Address: Same As Residence	
(4)	Inventor: Baruch M. Schieber  Signature:	Date 12-04-02
	Residence: 25 Wilmont Ave., White Plains, New York 10605	
	Citizenship: US	:
	Post Office Address: Same As Residence	
(5)	Inventor: Maxim I. Sviridenko	
	Signature:	$\underline{\qquad}_{Date} \underline{\bigwedge \backslash / 0 / / 0 / 2}$
	Residence: 3579 Sagamore Ave., Mohegan Lake, New York 10549	
	Citizenship: Russia	
	Post Office Address: Same As Residence	

Date

(6)	Inventor:	Jayram S.	Thathachar

.

Residence: 272 Palm Valley Blvd., #205, San Jose, California 95123

Citizenship: India

Signature:

Post Office Address: Same As Residence

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YOR920600824US1 (00280686AA)

PATENT APPLICATION

DEC 1 9 2002

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WE'SHE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Tracy J. Kimbrel et al.

Serial No.: 10/000,320

Group Art Unit: 2152

Filed: December 4, 2001

Examiner: Not Known

For: DYNAMIC RESOURCE ALLOCATION USING KNOWN FUTURE

BENEFITS

Commissioner of Patents and Trademarks Washington, D.C. 20231

RECEIVED

DEC 2 0 2002

CONSENT OF ASSIGNEE FOR CORRECTION OF INVENTIVE ENTITY UNDER 37 C.F.R. §1.48(a)

Technology Center 2100

Sir:

International Business Machines Corporation, assignee of the entire interest in the invention disclosed and claimed in the above-identified patent application, hereby consents to the correction of inventive entity as stated in the declaration under 37 C.F.R. §1.63 by inclusion of Maria Minkoff as a joint inventors together with:

Tracy J. Kimbrel, Robert Krauthgamer, Baruch M. Schieber, Maxim I. Sviridenko, and

Jayram S. Thathachar. A statement under 37 C.F.R. 3.73(b.

ış attacned

Date:

Signature: Jeffrey L. Forma

Title: Program Manager, Patent Office Liaison for International Business

Machines Corporation

PTO/SB/96 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S.Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Under the Reperwork Reduction Act of 195, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)	
Applicant/Patent Owner: Tracy J. Kimbrel et al.	
Application No./Patent No.: 10/000,320 Filed/Issue Date: Details Detai	cember 4, 2001
Entitled: Dynamic Resource Allocation Using Known Future B	
International Business Machines Corporation	· · · · · · · · · · · · · · · · · · ·
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, u	iniversity, government agency, etc.)
-t-t Ab-A is in.	RECEIVED
states that it is:	DEC 2 0 2002
1. The assignee of the entire right, title, and interest; or	_
<ol> <li>an assignee of less than the entire right, title and interest.</li> <li>The extent (by, percentage) of its ownership interest is</li></ol>	Technology Center 2100
in the patent application/patent identified above by virtue of either:	
A. (x) An assignment from the inventor(s) of the patent application/patent identified was recorded in the United States Patent and Trademark Office at Reel $\frac{123}{123}$ which a copy thereof is attached.	above. The assignment 49, Frame 0623, or for
OR	
B. [ ] A chain of title from the inventor(s), of the patent application/patent identified assignee as shown below:  1. From:	
The document was recorded in the United States Patent and Trademar	k Office at
Reel, Frame, or for which a copy th	
2. From:	
The document was recorded in the United States Patent and Trademark Reel, Frame, or for which a copy the	k Office at ereof is attached.
3. From:To:	
The document was recorded in the United States Patent and Trademark Reel, Frame, or for which a copy the	k Office at
[ ] Additional documents in the chain of title are listed on a supplemental sl	heet.
[ ] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the recorded in the records of the USPTO. See MPEP 302.08]	f the original document) ne assignment is to be
The undersigned (whose title is supplied below) is authorized to act on behalf of the a	assignee.
December 12, 2002  Date  Jeffrey L. Forman  Typed or print  Signat	·
Docket #YOR920000824US1 Program Manager, Pa	atent Office Liaison

Title

# ETTER OF AUTHORITY

I, Gerald Rosenthal Wisser resident, Intellectual Property and Licensing of International Business Machines Corporation (IBM), a New York corporation, do hereby delegate the authority to approve and execute documents on behalf of IBM relating to proceedings in the Patent, Trademark Registration or Copyright Offices servicing any country or region of the world, or to related appeal proceedings, including, but not limited to: petitions; powers of Attorney; authorizations; verification; nominations of representatives; declarations; documents relating to maintenance and defense of the resulting industrial property rights; assignments of rights to apply for and acquire patents and trademark registrations; and evidence of such assignments; request for the registration of patents as available for licensing; reports of inventions and DEC 2 0 2002 petitions for waiver of patent rights to any department or agency of the United States **Technology Center 2100** Government; and, assignments, licenses and other instruments confirmatory of Government. rights in patents and inventions, to Jeffrey L. Forman, Program Manager, Patent Office Liaison.

Date:

Gerald Rosenthal

Vice President, Intellectual Property & Licensing

International Business Machines Corporation

t No.: YOR920000824US1

FORM PTO-1595 (Modified) (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002) P08/REV03

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Tab settings → → →	<b>▼ (8</b> )	▼	▼		▼	lacktriangle
To the Honorable C	ommission en of	tents and Trademark	s: Please reco	ord the attached orig	inal documents or cor	by thereof.
1. Name of conveying Tracy J. Kimbrel Robert Krauthgam Maria Minkoff Baruch M. Schiebel Maxim I. Sviridenk	g party(ies): Jayr er r	am S. Thathachar	2. Name a	and address of recei		tion
Additional names(s) of co	onveying party(ies)	☐ Yes ☒ No				
3. Nature of conveyar	nce:					
☑ Assignment		Merger	Street A	Address:		
☐ Security Agreen	nent 🗆	Change of Name				
Other			City: A	rmonk	State: <u>NY</u> ZII	P:
Execution Date: 12/4	4, 12/5, 12/5, 12/4, 12	2/4, 12/5/02	Additional	name(s) & address(es	) attached?	⊠ No
4. Application number	r(s) or patent numb	ers(s):				
If this document is	being filed together	with a new application	n, the executi	ion date of the applic	cation is:	
A. Patent Application	on No.(s)		В	. Patent No.(s)		
10/000,320	12/04/02					
5. Name and address concerning docume	of party to whom c	•		Yes ⊠ No umber of application	s and patents involve	d: 1
Name: Marshall N	1. Curtis		- 7 Total fe	ee (37 CFR 3.41):	\$ 40.00	
Internal Address:			_ □ End	,	or insufficiency should	d be
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of the original docu	knowledge and beli Iment.	ef, the foregoing infon	mation is true	and correct and any	attached copy is a tro	
Marshall M. Curtis			schall	Mitsury	December 19, 200	<u></u>
Name of P	erson Signing Total number of	f pages including cover	Signatu sheet, attachm		9 Date	

### Page 1 of 2

### ASSIGNMENT

Whereas, We			
Inventors	(1)	Tracy J. Kimbrel County of Westchester	City of Cortlandt Manor and State of New York
	(2)	Robert Krauthgamer	City of Ramat Hasharon and Country of Israel
	(3)	Maria Minkoff County of Middlesex	City of Somerville and State of Massachusetts
	(4)	Baruch M. Schieber County of Westchester	City of White Plains and State of New York
	(5)	Maxim I. Sviridenko County of Westchester	City of Mohegan Lake and State of New York
	(6)	Jayram S. Thathachar County of Santa Clara	City of San Jose and State of California

have invented certain improvements in

#### Title

### DYNAMIC RESOURCE ALLOCATION USING KNOWN FUTURE **BENEFITS**

and have executed, respectively, a United States patent application therefor on

Dates That	(1) December 4	, 2002 ,
Inventor	(2)	2002
Signed the	(3)	2002 ,
	(4) December 4.	2002 ,
	(4) December 4, (5) December 4,	2002, and
	(6)	2002

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor,

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I the above named hereby sell, assign, and transfer to IBM its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the

5 . 3 2

invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

City	(1)	Signed at	Yorkton	`		
Date	04-	on	(Tracy First Name	J. Middle Initial	Kimbrel Last Name	_ signature ) inventor
City	(2)	Signed at				_signature
Daw		OA1	(Robert First Name	Middle Initial	Krauthgamer Last Name	) inventor
City	(3)	Signed at				
Date		on	(Maria First Name	Middle Initial	Minkoff Last Name	_signature ) inventor
City	(4)	Signed at	Yorktown	74, I		_signature
	12-	04-02	(Baruch First Name	M. Middle Initial	Schieber Last Name	) inventor
City	(5)	Signed at	Yorklan	n, NY Mglmo		
Date		on 12/04	(Maximt First Name	Mgeneral I. Middle Initial	Sviridenko Last Name	_signature ) inventor
City	<b>(6)</b>	Signed at				
Date		on	(Jayram First Name	S. Middle Initial	Thathachar Last Name	_signature ) inventor

## Page 1 of 2

### ASSIGNMENT

Whereas, We			
Inventors	(1)	Tracy J. Kimbrel County of Westchester	City of Cortlandt Manor and State of New York
	(2)	Robert Krauthgamer	City of Ramat Hasharon and Country of Israel
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Inventor	(2) December	<b>5</b> , 2002 ,
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	(4)	2002 ,
·	(5)	2002, and
	(6)	2002 .

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City	(1)	Signed at				
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and State of California

### **ASSIGNMENT**

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	(6)	Jayram S. Thathachar	City of San Jose

have invented certain improvements in

County of Santa Clara

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Inventor	(2)	2002 ,
Signed the	(3) Dec. 5	2002 ,
	(4)	2002 ,
	(5)	2002 , and
	(6)	2002 .

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Date	,	on	(Robert First Name	Middle Initial	Krauthgamer Last Name	_signature ) inventor
City Date	(3)	Signed at on Dec 5, 2	Cambridge, M 2002 <u>(Llau</u> (Maria First Name	ia Sliu Middle Initial	Minkoff Last Name	_signature ) inventor
City Date	(4)	Signed at	(Baruch First Name	M. Middle Initial	Schieber Last Name	_signature ) inventor
City	(5)	Signed at	(Maximt First Name	I. Middle Initial	Sviridenko Last Name	_signature ) inventor
City Date	<b>(6)</b>	Signed at	(Jayram	S.	Thathachar	_signature
		•	First Name	Middle Initial	Last Name	) inventor

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City	(5)	Signed at				
Date		on	(Maximt First Name	I. Middle Initial	Sviridenko Last Name	_signature ) inventor
City	(6) Signed at SAN JOSE, CA					
Date §	th.	on shaecla	Jayram (Jayram)	fan '	Thathachar	_signature ) inventor
			First Name	Middle Initial	Last Name	) inventor